MATERIAL SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION

TRADE NAME: ET22C HARDENERS (PART B)

MANUFACTURER'S NAME: Simpson Strong-Tie company, Inc.

Address: 4637 Chabot Drive, Suite 200
Pleasanton, CA 94588

Phone number for additional information: (800) 535-5053

Date prepared or revised: March 1997

Product description: Blend of curing agents, solvents and coloring agents.

II. HAZARDOUS INGREDIENTS

Chemical Names	CAS Numbers	Exposure Limits in Air ACGIH TLV	OSHA PEL
Mercaptan/Amine Blend	N/E		
2,4,6-tris(dimethyl-aminomethyl)phenol	90722	N/E	N/E
Filler (trade secret)	N/E	3 mg/m^3 *	5 mg/m^3 **
Silica, amorphous (fumed)	112945-52-5	2 mg/m^3 ***	10 mg/m^3 ****

* ACGIH TLV for particulates not otherwise classified, respirable
** OSHA PEL for particulates not otherwise regulated, respirable
*** ACGIH TLV for amorphous silica, fume, respirable
**** OSHA PEL for amorphous silica, precipitated and gel, total

The remaining ingredients are designated as "trade secret."

III. PHYSICAL PROPERTIES

Vapor density (air=1): N/E

Melting point, °F: N/E

Specific gravity: N/E

Boiling point, °F: N/E

Solubility in water: N/E

Evaporation rate: N/E
(butyl acetate = 1)

Vapor pressure, mmHg at 20° C: N/E
(low volatility at room temperature)

Appearance: paste

pH: N/E

Warning properties: odor, irritation

N/A: Not Applicable

N/E: Not Established

IV. FIRE AND EXPLOSION

Flash Point, °F: N/E
(flammable component less than 1 percent)

Auto ignition temperature, °F: N/E

Flammable limits in air, volume % : **lower (LEL): N/E Upper (UEL): N/E**

Fire extinguishing materials:

_____ **water spray** __X__ **carbon dioxide** _____ **other**

__X__ **foam** __X__ **dry chemical**

N/A: Not Applicable N/E: Not Established

Special firefighting procedures: Wear protective clothing and self-contained breathing apparatus to protect against decomposition products.

Unusual fire/explosion hazards: Containers exposed to intense heat from fire should be cooled with water to prevent vapor/gas build-up and container rupture.

V. HEALTH HAZARD INFORMATION

SYMPTOMS OF OVEREXPOSURE

Inhaled: Due to low volatility, not likely to present an inhalation hazard. If inhaled, may be severely irritating to the nose, throat and respiratory tract. Inhalation of volatile component (<1.0 percent) may result in central nervous system (CNS) depression, evidenced by giddiness, headache, dizziness and nausea.

Contact with skin or eyes: Severely irritating to the skin and eyes; may cause burns and tissue damage. May cause dermatitis and skin sensitization, evidenced by rashes and hives.

Absorbed through skin: Ingredients are not known to be absorbed through the skin.

Swallowed: Severely irritating to the gastrointestinal tract, may cause headache, nausea, vomiting, diarrhea and bleeding of the gastrointestinal tract. Some ingredients may cause CNS depression.

HEALTH EFFECTS OR RISKS FROM EXPOSURE

Acute: See EFFECTS OF OVEREXPOSURE above.
Chronic: See below.

SUSPECTED CANCER AGENT?

__X__ NO: This product's ingredients are not found in the lists below.

YES: _____Federal OSHA ____ NTP ____ IARC

FIRST AID: EMERGENCY PROCEDURES

Eye Contact: Immediately flush eyes with plenty of cool water for at least 15 minutes while holding the eyes open. Seek medical attention.

Skin Contact: Immediately remove contaminated clothing and shoes. Wipe or dab excess product from skin and flush with plenty of cool water for at least 15 minutes. Seek medical attention.

Inhaled: Move the victim to fresh air. Give artificial respiration if breathing has stopped. Seek medical attention.

Swallowed: Call emergency medical services. Give 2 glasses of water. Do not induce vomiting. Seek medical attention.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Pre-existing skin, eye or lung disorders may be aggravated by exposure to this product.

VI. REACTIVITY DATA

Stability:	__X__ Stable	_____ Unstable
Hazardous polymerization:	_____ May occur	__X__ Will not occur

Incompatibilities: Reacts vigorously with oxidizing agents and bases.

Hazardous decomposition products: Carbon monoxide, carbon dioxide, hydrogen sulfide, oxides of sulfur and nitrogen, and other organic and inorganic compounds.

Conditions to avoid: Incompatible chemicals, heat and combustion.

VII. SPILL, LEAK, AND DISPOSAL PROCEDURES

Spill response: For large spills, wear chemically-resistant clothing (e.g., booties, apron and gloves) and eye protection. Wear NIOSH-approved respiratory protection as necessary to prevent inhalation exposure. Dike and absorb spill with inert absorbent, e.g., clay or sand. Flush area with water to remove trace residues.

Waste disposal: Place in leak-proof, compatible containers. Dispose of in accordance with federal, state and local regulations.

VIII. SPECIAL HANDLING INFORMATION

Ventilation and engineering controls: Use this product only for its intended use. Use in a well-ventilated area. Where skin and eye contact may occur, provide emergency eyewash and drench facilities in the immediate work area.

Respiratory protection: Not normally required due to low volatility of product. If needed or advised, e.g., during large spill clean-up, use NIOSH-approved air-purifying respirator. If thermal or oxidative decomposition occurs, e.g., during a fire, wear self-contained breathing apparatus.

Eye protection: Wear safety goggles or other safety eyewear, as appropriate to prevent eye contact under the foreseeable conditions of use.

Gloves: Wear chemically-resistant gloves as necessary to prevent skin contact under the foreseeable conditions of use.

Other clothing and equipment: Wear a chemically-resistant apron and/or other protective clothing as necessary to prevent contact of product with personal clothing or skin under the foreseeable conditions of use. OF 5

Work practices, hygienic practices: Use this product only for its intended use. Avoid inhalation and contact with skin and eyes. Wash hands and other exposed skin surfaces with soap and water immediately following use of product, even if gloves and other protective clothing are worn.

Other handling and storage requirements: Store well away from incompatible materials. Store in a cool dry place well away from heat, sparks, flames and other sources of ignition.